

Claims

1. A heat exchanger comprising plates (10) with a pattern of grooves and connections for inlets and outlets, placed in a pack and brazed, so that separate channels for two media between alternating pair of plates (10) are formed,
5 **characterized in** that a set of holes (20) is arranged through said plates (10) around said connections (1, 6) and in that reinforcement means (30) are arranged through said holes (20).
- 10 2. A heat exchanger according to claim 1, **characterized in** that brazings (12, 13, 14) are arranged to seal off the holes (20) towards the channels.
3. A heat exchanger according to claim 2, **characterized in** that said holes (20) are arranged in rotational symmetry through the plates (10), with regard to a 180
15 degrees rotation.
4. A heat exchanger according to claim 3, **characterized in** that each of said reinforcement means (30) is a threaded rod having a first stop (32) at a first end.
- 20 5. A heat exchanger according to claim 4, **characterized in** that said reinforcement means (30) is arranged to be fixed at said pack by means of a second stop (50, 51) having at least one threaded hole, in which hole a second end of the reinforcement means (30) is arranged to be screwed.
- 25 6. A heat exchanger according to claim 5, **characterized in** that a pressure distributing disk (33) is arranged between an outer plate and said first stop (32) and in that said pressure distributing disk (33) has holes for said connection (1, 6).
- 30 7. A heat exchanger according to claim 6, **characterized in** that said pressure distributing disk (33) is a ring (33) having a recess (36) for receiving a flange coupling having a flange (60) with an inner edge (62) at a neck (61), whereby the inner edge (62) can be arranged at the recess (36).
- 35 8. A heat exchanger according to any one of the preceding claims, **characterized in** that 30 plates (10) are arranged in said pack.
9. A heat exchanger according to any one of the preceding claims, **characterized in** that a number of packs of plates (10) are connected by means of a packing of

rubber or copper between each pack.

10. A heat exchanger according to any one of the preceding claims, **characterized**
in that a number of pack of plates (10) are connected by means of a flange
5 coupling.